

HARDI, Istvan, dr.

Istvan Hollos, 1872-1957. Ideg. szemle 10 no.2:64 May 57.

(OBITUARIES

Hollos, Istvan (Hung)

HARDI, Istvan, Dr.

Place and significance of psychotherapy in medical practice. Orv.
hetil. 99 no.23:778-782 8 June 58.

l. A Janos Korhaz Rendelointezet (igazgato: Bakacs Tibor dr.)
Idegosztalyanak (foorvos: Gereb Tibor dr.) kozlemenye.

(PSYCHOTHERAPY

place & significance in med. practice (Hun))

HARDI, I., dr.

The use of frenolon in ambulant psychiatric practice. Ther. hung. 9
no.3/4:21-24 '61.

1. Pest County Council, Psychiatric Centre (Head: Dr. I. Hardi),
Budapest.

(TRANQUILIZING AGENT) (PERPHENAZINE)

HARDI, Istvan, dr.

Observations on the psychology of nursing. Magy pszichol
szemle 18 no.1:53-60 '61.

1. Pestmegyei Tanacs Idegbeteggondozója vezetője.

HARDI, Istvan, dr.

"Handbook on the science of neuroses and psychotherapy" by V.E. Frankl, V.E.Gebstet and J.H.Schultz. Vol.1: "General science of neuroses and general psychotherapy", Vol.4: Special psychotherapy II. and prophylaxis of neuroses." Reviewed by Istvan Hardi. Magy pszichol szemle 18. no.2:240-244 '61.

HARDI, Istvan

SURNAME, Given Names

Country: Hungary

Academic Degrees: Dr

Affiliation: [not given]

Source: Budapest, Magyar Pszichologai Szemle, Vol XVIII, No 2, 1961, pp 244-246

Data: Review of "Handbook of Neuroses and Psychotherapy. Volumes I and IV," by
V. E. Frankl, V. E. Gebstall and J. H. Schultz. Munich-Berlin, 1959.

67

670 981643

HARDI, Istvan, dr.; PAJZS, Zsuzsanna, dr.

Therapy of depressive conditions with levomepromazine. Orv.hetil.
102 no.8:353-357 19 F'61.

1. Pestmegyei Tanacs Idegbeteggondozo Intezete es a Janos Korhaz-
Rendelointezet Bajmegallapito Osztaly.
(TRANQUILIZING AGENTS ther)
(DEPRESSION ther)
(PSYCHOSES MANIC DEPRESSIVE ther)

HARDI, Istvan, dr.

"Suggestion" by Berthold Stokvis and Manfred Pflanz. Reviewed
by Istvan Hardi. Magy pszichol szemle 21 no. 1: 133-134 '64.

EXCERPTA MEDICA Sec 16 Vol 7/5 Cancer May 59

1813. **Studies of cervical carcinoma with the phase contrast microscope**
Die Untersuchungen der Portiokarzinome mit Hilfe der Phasenkontrastmikroskopie. SVEJDA J., HARDLICKA M. and PTÁČKOVÁ B. Path.-Anat. Inst. und Onkol. Inst., Med. Fak der Masaryk-Univ., Brünn. *Z. Geburtsh. Gynäk.*, 1958, 150/2 (193-200)

Phase contrast microscopy was employed in examination of 357 women. In 226 out of 236 cases (95.7%), cervical or vulvar carcinoma was diagnosed. In 86% phase contrast microscopy allowed immediate diagnosis of the histological type. In only 10 women (4.3%) the first cytological examination was falsely negative. On account of its simplicity and quick applicability, phase contrast microscopy is suitable for examinations in screening clinics. Because the characteristics of malignancy are not always outspoken phase contrast microscopy is an auxiliary method, which must be used only in connection with other methods of examination. It allows observation of the cellular changes during irradiation treatment, as was done in 106 patients. In combination with histochemical and cytochemical methods it makes the changes in living cells visible and thus constitutes a valuable contribution to the study of disturbances due to irradiation.

HARDT, D.

Present stage and immediate needs of typifying. Constr Buc 14 no.
672:1,3 24 N '62.

1. Arhitect-sef al sectorului de tipizare din I.S.C.A.S.

IAROVICI, M., candidat in stiinte economice; COSMA, M., ing.; DODU, A., ing.; MACOVEI, M., ing.; GIURCA, Virginia; HARDT, Hedi, ing.

Aspects of the comparative economic efficiency of the main textile technologies. Ind text Rum 15 no.11:573-580 N '64.

1. Institute for Textile Research, Bucharest.

HARDT, M.

"Electrification of railroads in the USSR."

p. 382 (Electrotehnica) Vol. 5, no. 11, Nov. 1957
Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

HARDT, M.
SURNAME, Given Names

Country: Rumania

Academic Degrees: Engineer

Affiliation: -not given-

Source: Bucharest, Stiinta si Tehnica, No 8, Aug 1961, pp 22-23.

Data: "Food Refrigerators."

GPO 981643

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617910010-6

HARDY, M., ing.

Commercial automats. St si Teh Buc 14 no. 7:42-43 Jl '62.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617910010-6"

HARDT, M., ing.

Improving the performances of ice generators. Ind alim 14 no.
10*416-420 0*63.

1. I.S. "Frigotehnica", Bucuresti.

MÄGI, Heino; HARDUVA, E., red.

[Ottepää] Otepää. Tallinn, Eesti Riiklik Kirjastus,
1963. 101 p. [In Estonian] (MIRA 17:6)

S/190/61/003/001/019/020
B119/B216

AUTHORS: Hardy, D., Spiegel, V., Nytrai, K.

TITLE: Synthesis and polymerization kinetics of the complex vinyl ester of salicylic acid

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 1, 1961, 144-149

TEXT: Vinyl salicylate (VS) is of interest as initial material for polymers inasmuch as it possesses both an OH group capable, under certain conditions, of entering into polymeranalogous reaction and a mobile H atom which may possibly intensify the polymerization reaction. In contrast to other authors who obtained 2-methyl-4-keto-1,3-benzodioxane on transesterification of vinyl acetate and salicylic acid, the authors of the present paper obtained VS in 10.4% yield by reducing the reaction time (from 36 to 3.5 hr) and lowering the reaction temperature (to 73-82°C). The data of VS are: boiling point 125°C at 3 mm Hg; nonfreezable in an acetone - dry ice mixture; molecular weight 176 (determined cryoscopically in benzene, theoretical molecular weight 164); M_R^D 42.96 (theory 42.87). Further evidence of the

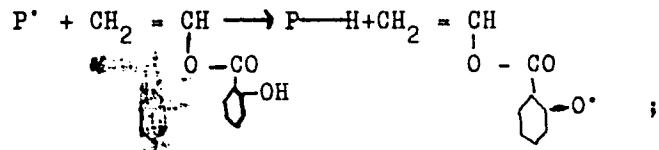
Card 1/3

S/190/61/003/001/019/020

B119/B216

Synthesis and polymerization...

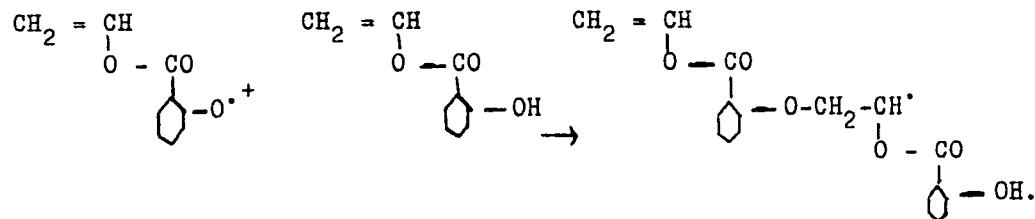
structure of VS was gained from its infrared spectrum (Fig. 1). Azoisobutyronitrile was used as initiator in polymerization tests of VS. The polymerization kinetics were followed dilatometrically (using an ampoule dilatometer with a capacity of 10 ml). The molecular weight of the polymers was determined viscosimetrically (the polymer was hydrolyzed in methanolic NaOH and the polyvinyl alcohol obtained dissolved in water and then measured). Results: The chain transfer constant of the monomeric molecule C_M is $8.0 \cdot 10^{-3}$ at 70°C (C_M for vinyl benzoate, having no OH groups, is $\sim 0.7 \cdot 10^{-3}$ at $\sim 80^\circ\text{C}$, C_M for vinyl acetate is $-0.15 \cdot 10^{-3}$ at 60°C). Reaction mechanism:



Card 2/3

Synthesis and polymerization...

S/190/61/003/001/019/020
B119/B216



The overall activation energy, E, of the polymerization reaction is 27.7 kcal/mol. The authors thank D. Varsanyi and S. Golli for their co-operation (infrared spectra). The study presented is a part of the work for a diploma by the second author, April 1956, at the Department of the Technology of Plastics and Rubbers of the Budapest Polytechnic Institute. There are 6 figures, 2 tables, and 11 non-Soviet-bloc references.

ASSOCIATION: Research Institute of Organic- and Plastics Industry, Budapest

SUBMITTED: September 14, 1960

Card 3/3

S/190/62/004/012/013/015
B101/B186

AUTHORS: Hardy, D., Nitray, K., Fedorova, N., Kovacs, G.

TITLE: Polymerization of cetyl methacrylate

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 12, 1962,
1872-1878

TEXT: Polymers with a vitrification temperature of 20-25°C and an intrinsic viscosity of 1.60-3.45 were obtained in the course of a study of the polymerization kinetics of cetyl methacrylate in the presence of benzoyl peroxide in N_2 atmosphere at 50-80°C. The degree of conversion was a linear function of time. Polymerization ceased at 66% conversion. No region of accelerated polymerization was observed as with other acrylates and methacrylates. The following data are given: constant k_i of the initiation rate, $3.09 \cdot 10^{-6}$; constant k_g of the chain growth, 98 at 30°C; $k_g/k_t^{1/2} = 0.065$ at 30°C, 1.080 at 70°C, where k_t is the constant of chain termination; furthermore, $k_g/k_t^{1/2} = 42.3 \exp(-2500/RT)$.

Card 1/2

Polymerization of cetyl...

S/190/62/004/012/013/015
B101/B166

The gross activation energy of polymerization is 17.8 kcal/mole, $E_g = 0.5 E_t$ ≈ 2.4 kcal/mole (E_g = activation energy of the chain growth, E_t = activation energy of termination). The chain transfer coefficient C_M at 70°C is $1.4 \cdot 10^{-5}$ for the monomer, $9.83 \cdot 10^{-5}$ in the presence of CCl_4 , and $20.5 \cdot 10^{-5}$ in the presence of isopropyl benzene. The initiation efficiency f is only 0.14. These low values, as compared with other acrylates and methacrylates, are explained by the high molecular weight and the high viscosity of cetyl methacrylate. There are 4 figures and 4 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut plastmassovoy promyshlennosti Budapest (Scientific Research Institute of the Plastics Industry, Budapest)

SUBMITTED: June 16, 1962

Card 2/2

HARDY, Erno, okleveles gepeszernok; HARDY, Ervin, okleveles gepeszernok

Economical regulation of condensation temperature of cooling
installations. Energia es atom 13 no.4/5:217-219 Ap-My '60.

HARDY, Erno, okleveles gepeszmernok; HARDY, Ervin, okleveles gepeszmernok

Economical regulation of condensation temperature of cooling
installations. Energia es atom 13 no.4/5:217-219 Apr-May '60.

Initiation Reactions in the Polymerization of Vinylesters and Investigation of Their Correlation With Acid Radicals -- Gy. Hardy and J. Szita
(Central Research Institute for Chemistry, Hungarian Academy of Sciences,
Budapest)

Received October 2, 1956

Acta Chimica Academiae Scientiarum Hungaricæ
1958, Vol 15, Nr 4, p 339

Distr: 4E3d/4E4j/4E2c(j)

SUMMARY

1. It was found that a correlation exists between the decrease of the absolute value of the rate constant of the initiation reaction and the decrease of acidity of the corresponding fatty acid, measured at the same temperature, in the case of the vinyl esters of aliphatic fatty acids. The value of the appropriate action constants diminished by increasing molecular sizes of substituents, whilst the absolute values of initiation activation energies proved to be identical within the errors of measurement, ranging about 33 000 cal.
2. On the basis of literature data the theoretical and practical limits of the inhibition method were established. It was stated that this method of measurements does not take into consideration the capability of initiators to form radicals and the finer mechanism of the initiation process, either.

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HARDY, Gy

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Distr.: 4E2c(j)/4E3d
Initiation reactions in the polymerization of vinyl esters
and investigation of their correlation with acid radicals.⁷

Gy. Hardy and J. Szita (Hung. Acad. Sci., Budapest).

Acta Acad. Sci. Hung. 13, 339-50 (1968) (in English).

The behavior of a vinyl polymer in the initiation reaction
of a polymerization process should be detd. by the condition
of the π -bond of the vinyl group. The validity of this
presumption was studied by an investigation of initiation
reactions by the inhibition method (Bartlett and Kwart,
C.A. 44, 5803g), by using azodilisobutyronitrile as the ini-
tiator and 2,2-diphenyl-1-picrylhydrazyl as the inhibitor.
In the series of the vinyl esters of formic, acetic, propionic,
butyric, isobutyric, and isovaleric acids, the trend of the
reduction of abs. magnitudes of rate consts. of the initiation
reaction at the same temp. was identical to the trend of de-
crease of the dissoci. consts. of the fatty acids. The ini-
tiation activation energies were identical. A different
behavior was found with vinyl monochloroacetate and vinyl
benzoate. All attempts at radical polymerization of the
vinyl furoate failed. Two new vinyl esters were synthe-
sized and had the following properties: furoate, m. 14-14.5°,
b. 182-4°, d_{4}^{20} 1.1127, n_{D}^{20} 1.6060, n_{D}^{20} 1.6088; isobutyrate
b. 104-5°, d_{4}^{20} 0.8921, n_{D}^{20} 1.4052. A real initiation rate is
detd. by the inhibition method only when the free radical
formed on decompn. of the initiator reacts with a monomer
mol.

Arthur Fleischer

6
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✓ Autoinhibition in the radical polymerization of furan-carboxylic acid vinyl ester. Gy. Haudy (Hung. Acad. Sci., Budapest). *Acta Chim. Acad. Sci. Hung.* 17, 121-5 (1958) (in German).—Mixts. of vinyl acetate and azodisiobutyronitrile with furancarboxylic acid vinyl ester (I) or furan-carboxylic acid phenyl ester (II) were polymerized in sealed dilatometers at 60° in the absence of O₂. Increasing amts. of I and II greatly inhibited the rate of polymerization. M. J. D. Low

Distr: 4E2c(j)

3
3 May

15. Investigation of the effect of vinyl furate and some derivatives on polymerization processes of radical mechanism.
Iv. Hardy, D. David, K. Nyitrai, H. Pauer.
Makromol. Chem., Vol. 64, 1963, No. 7-8, pp. 281-
286, 8 Figs.

The investigation showed that furan derivatives have a strong retarding influence on the radical type polymerization of vinyl acetate since the furan ring reacts with the initiating free radicals. Kinetic measurements of polymerization indicate a double chain-transfer inhibition mechanism. First the vinyl ester of tetrahydrofuran carboxylic acid was synthesized and polymerized. In the case of tetrahydrofuran derivatives no retarding effect on the radical polymerization of vinyl acetate was observed. As a consequence it follows that the lack of the radical polymerization of vinyl furate is explained by the fact that the furan ring of the monomer molecule reacts with the initiating free radicals and thus an autoinhibition of the radical polymerization occurs. This is a rare case of autoinhibition, a similar phenomenon being observed only in the reactions of free radicals with allyl compounds or some olefines (octene-1, propylene, isobutylene).

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4E3d
4E2c jj
1
2 May.

John

distri: 453c/4E3d/4B2c(j)

Use of ionization radiation in plastics industry. Grula, Hardy, and Janos Dobro Research Inst. Organic Chem. and Technics Ind., Budapest, Hung.). *Chem. Przegysl* 9, 318-18 (1959). X-radiation (2.5×10^4 r./hr.) was used for block polymerization of CH_2ClCH_2 , the resulting poly(vinyl chloride) (I) being free from initiators and emulsifying agents. Since the rate of initiation is insensitive to temp., the rate of polymerization a little varied with temp. (202).

12.5 hr. at 0° , 22% 2.5 hr. at -78° . With respect to transfer reactions, the mol. wt. is very high (K-value 80.4-89) and the stability of I is the same as for unstabilized emulsion or suspension I. Simultaneous degradation and cross-linking are lowered with decreasing intensities of radiation in the presence of stabilizers and by removing the resulting polymer from radiation. Ion exchange membranes were prepared by grafting films (0.08 mm) from V, polyethylene (II), and polytetrafluoroethyl-

7
3
summary

COUNTRY : Hungary H-29
CITY :
ABSTRACT JOUR. : RZKhim., No. 1959, No. 88412
AUTHOR : Hardy, G.
INST. :
TITLE : Development of the Plastics Industry in Hungary
ORIG. PUB. : Magyar kem. lapja, 1959, 13, No 7-8, 268-270
ABSTRACT : Development trends of the Hungarian industry of plastics are considered. -- L. Pesin.

CARD:

261

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617910010-6

HARDY, GY.

Research on plastic materials at the Research Institute of Organic Chemical Industry and Plastic Materials Industry. p. 67.

MAGYAR KEMIKUSOK LAPJA. (Magyar Kemikusok Egyesülete) Budapest, Hungary Vol. 14, no. 2/3, Feb./Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

Distr: 4E2c(j)

170/60. 66.095.26
Investigation of radical polymerization processes in the presence of alien substances, I. Effect of organic halogen compounds on the polymerization of vinyl acetate.
(In Russian) A. Wahnscheidt, Gy. Hardy. Acta Chimica Academiae Scientiarum Hungaricae, Vol. 30, 1959, No. 2, pp. 261-273, 5 figs., 6 tabs.

The chain transfer constants of 30 different organic halogen compounds were determined by the authors at 70° C in the polymerization of vinyl acetate promoted by benzoyl peroxide. Of the examined 30 organic halogen compounds, halogen hydrocarbons possessing halogen-carbon bonds of low binding energy, e. g. bromoform, tetrabromo-methane, monobromo-trichloromethane, proved to be the most active. Furthermore, the authors established the correlations in the various groups of compounds (halogen derivatives of methane, ethane, ethylene, aliphatic and aromatic halogen derivatives, oxygen-bearing halogen derivatives) between the structure of organic substances and the chain transfer activity observed in the radical polymerization of vinyl acetate.

4
170(NB)
IBW(Bw)

Distr: 4E2c(j)

✓ 171/60.

1 66.005.26

Investigation of radical polymerization processes in the presence of alien substances. II. Effect of hydrocarbons, alcohols, aldehydes, ketones, esters and acids on the polymerization of vinyl acetate. (In Russian) A. W a h n a c h i d t , Gy. H a r d y . Acta Chimica Academiae Scientiarum Hungaricæ, Vol. 20, 1969, No. 4, pp. 381—391, 5 figs., 5 tabs.

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1-Lv.(MG)
1-Bw.(SLV)

The chain transfer constants of 33 different organic compounds not containing halogens were determined by the authors at 70° C in the polymerization of vinyl acetate promoted with benzoyl peroxide. Of the examined 33 different organic compounds not containing halogens, some substances containing extremely labile hydrogen atoms — e. g. 9-phenyl fluorene, benzyl mercaptan and dimedon — proved to be the most active. Furthermore, the authors established the correlations in the various groups of compounds (hydrocarbons, alcohols, aldehydes, ketones, esters and acids) between the structure of organic compounds and their chain transfer activity in the radical polymerization of vinyl acetate. In the same compounds the maximum absolute values of the observed chain transfer constants appeared in vinyl acetate, while the minimum values were found in styrene. No changes could be observed in the sequence of chain transfer activity of the various monomers.

DOBO, Janos; HARDY, Gyula, a kemial tudomanyok kandidatusa

Some problems relating to radiation polymerization. Kem tud kozl MTA
14 no. 3:330-336 '60. (EEAI 10:9)

1. Szerves Vegyipari es Muanyagipari Kutato Intezet, Budapest.

(Radiation) (Polymers and polymerization)
(Ethylene) (Ion exchange) (Chloroethylene)

HARDY, Gyula

Data on telomerization reactions. Magy kem lap 15 no.7:307-314
Jl '60.

1. Szerves Vegyipari es Muanyagipari Kutato Intezet, es "Magyar
Kemikusok Lapja" szerkeszto bizottsagi tagja.

KORANYI, Gyorgy, dr.; GYULAY, Zoltan, egyetemi tanar; DIOSZEGHY, Daniel,
egyetemi tanar; WAHLNER, Aladar, fomernok; VAMOS, Endre, kandidatus;
NYUL, Gyula, kandidatus; FREUND, Mihaly, dr., akademikus; ~~████████~~
~~████████~~ Lajos, akademikus; TAKACS, Pal, dr., kandidatus; SCHLATTNER,
Jeno, kandidatus; HARDY, Gyula, a kemiai tudomanyok kandidatusa

Report on the 1959-60 work of the Committee on Petroleum and Coal
Processing, Hungarian Academy of Sciences. Kem tud kozl MTA 16 no.3:
349-359 '61.

H/006/62/000/002/001/002
D249/D303

AUTHOR: Hardy, Gyula

TITLE: The chemical effects of high energy radiation; prospects
of its application in the industry

PERIODICAL: Magyar kémikusok lapja, no. 2, 1962, 52-61

TEXT: A short review of the application of radiochemical techniques in
the chemical industry, based on Soviet and Western work. A brief des-
cription is given of radiations and of the main types of radiation sources.
Radiochemical techniques finding extensive application in the plastics in-
dustry are described and discussed under: (1) Polymerization in the solid
phase as a technique for preparing stereospecific polymers. Examples
of radiochemical polymerization in the liquid and gas phased are mentioned.
(2) Transformation of polymers, e.g. radiochemical chlorination, sulpho-
chlorination and sulphonoxidation. (3) Radiochemical grafting. (4) Cross-
linking of polymers. Since this can be achieved by irradiating finished
products (e.g. foils, plates, tubes) it is a field of application which

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H/006/62/000/002/001/002
D249/D303

The chemical effects ...

has been studied most extensively by the industry. (5) Radiochemical vulcanization. The introduction of radiochemical techniques into the petroleum processing industry is thought to promise considerable savings, especially when processing a large volumes of materials. Reference is made to studies of the radiochemical cracking process made by Topsieff and co-workers (Ref. 20; Lecture at the Conference on the Application of the Sources of High Energy Radiation in Industry, Warsaw, 8-12 September 1959), who concluded that above 230°C radiochemical-thermal cracking was a chain reaction. The composition of the products is identical with those of the thermal cracking while the yield is much larger. Further potential application in the petroleum industry is the de-sulphurization of petroleum products. Radiochemical techniques in the synthetic organic and inorganic chemical industries are briefly reviewed. The lines of application indicated are preparation of nitric acid, hydrazine, sulphuric acid, hexachlorohexane, phenol plus telomerization reactions. Finally, the further technical and economic problems of industrial application are listed. These are: (1) Inadequate utilization of the energy of radiation sources. (2) Production of homogeneous fields of radiation

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H/006/62/000/002/001/002

The chemical effects ...

D249/D303

in large volumes. (3) Finding sensitizers to reduce the duration of irradiation required by some reactions. Finding methods to increase the selectivity of the radiochemical reactions. (4) Finding the optimum conditions for the radiochemical reactions requiring large amounts of energy. (5) Removal of the products of the reactions from the field of radiation before changes start due to a further amount of undesired radiation. There are 5 figures and 29 references: 14 Soviet-bloc and 15 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: S.H. Pinner, British Plastics, 34, 30, (1961); Charlesby and Arnim: J. Polym. Sci., 26, 151, (1957); H.A. Dewhurst: J. Chem. Phys. 24, 1254, (1956); McBee, Roberts and Puerckhauer: J.Am.Chem.Soc., 79, 2329, (1957).

ASSOCIATION: Müanyagipari Kutató Intézet (Industrial Plastics Research Institute)

Card 3/3

HARDY, Gyula; SZABÓ, Zoltan

Technical-economic reviews. Magy kem lap 17 no.2:102-103 F '62.

1. Muanyagipari Kutato Intezet (for Hardy) 2. "Magyar Kemikusok
Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Technical economic review. Magy kem lap 17 no.3:112 Mr '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja

HARDY, Gyula

New aldehydes prepared from diazonium compounds. Magy kem lap
17 no.6:270 Je '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

A new sulfonation process. Magy kem lap 17 no.6:270 Je
'62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Technical economic review. Magy kem lap 17 no.6:273 Je
'62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

New hydrodealkylation process. Magy kem lap 17 no.8:353
Ag '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Recovery of hydrogen from the fuel gases of petroleum refineries.
Magy kem lap 17 no.8:353 Ag '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

A new electrothermal process to produce aluminum.
Magy kem lap 17 no.8:381-382 Ag '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Applying molecule screens at alkylations catalyzed with acids. Magy kem lap 17 no.8:382 Ag '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

New process for preparing malic acid. Magy kem lap 17 no.9:399 S '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Preparation of dicyanide from cyanide hydrogen and nitrogen oxide.
Magy kem lap 17 no.9:399 S '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Putting a new device into operation for extracting oil seeds. Magy kom
lap 17 no.10:444 0 '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Oil wells controlled by calculating machines. Magy kem lap 17 no.10:
444 0 '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Calculating machine for planning. Magy kem lap 17 no.10:451 O '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

New role of boron hydride in preparing catalysts. Magy kem lap 17 no.10:
472 0 '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Anticorrosive coatings made of zinc silicates. Magy kem lap 17 no.10:
472 0 '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

New analytical instruments and processes. Magy kem lap 17 no.11:
487 N '62.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

ERDEY-GRUZ, Tibor, akademikus; BRUCKNER, Gyozo, akademikus; LENGYEL, Bela; TELEGYD-KOVATS, Laszlo, a tudomanyok doktora; HARDY, Gyula, kandidatus; GERECS, Arpad, akademikus; FOLDI, Zoltan; WOLKOBER, Zoltan; TUDOS, Ferenc, kandidatus; PURMAN, Jeno; KRAUSZ, Imre, kandidatus; ERDEY, Laszlo, akademikus; SCHAY, Geza, akademikus

An account of the 1961 work of the Section of Chemical Sciences, Hungarian Academy of Sciences. Kem tud kozl 18 no.3:343-394 '62.

1. Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak titkara, es "A Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak Kozlemenyei" szerkesztoje (for Erdey-Gruz). 2. Akademiai levelező tag (for Lengyel and Foldi). 3. "A Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak Kozlemenyei" szerkeszto bizottsagi tagja (for Bruckner, Erdey, Foldi, Gerecs, Hardy, Lengyel, Schay, Tudos).

HARDY, Gyulane; RADICS, Lajos; TUDOS, Ferenc, kandidatus

An account of the 5th International Symposium on Free Radicals.
Kem tud kozl 18 no.3:509-519 '62.

1. Magyar Tudomanyos Akademia Kozponti Kemial Kutato Intezete,
Budapest. 2. "A Magyar Tudomanyos Akademia Kemial Tudomanyok
Osztalyanak Kozlemenyei" szerkeszto bizottsagi tagja (for Tudos).

HARDY, Gyula

A new method of separation: permeation in the liquid phase.
Magy kem lap 18 no.1:7 Ja '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula, dr.; VARGA, Jozsef

Investigations in the field of radiation-induced solid state polymerization. Pt. 2. Acta chimica Hung 40 no.4:419-430 '64.

1. Chair of Plastics and Rubber, Technical University, Budapest, XI., Budafoki ut 4-6. 2. Editorial board member, "Acta Chimica Academiae Scientiarum Hungaricae" (for Hardy).

HARDY, Gyula

Poly-(hexafluorpropylene) plastics materials. Magy kem lap
18 no.1:11 Ja '63.

1. "Magyar Kemikusok Lapja" bizottsagi tagja.

HARDY, Gyula

More durable thermoelements. Magy kem lap 18 no.1:32 Ja '63.

l. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Electronic device for reading manuscript numbers. Magy kem
lap 18 no.1:32 Ja '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

A new ion-exchanging resin for desalting proteins. Magy kem
lap 18 no.1:42 Ja '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

PVC-lined metal drums. Magy kem lap 18 no.1:42 Ja '63.

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HARDY, Gyula

Inorganic polymers. Magy kem lap 18 no.1:52 Ja '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Technological and economic reviews. Magy kem lap 18
no.5:245 My '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

A new antimalarial drug. Magy kem lap 18 no.6:253 Ja '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

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MARUY, Gyula

French method for chlorine regeneration. Magy kem lap 18 no.6:
260 Je '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

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HARDY, Gyula

Rubber strengthened by glass fibers. Magy kem lap 18 no.6:265
Je '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Development in the production technology of fertilizers. Magy
kem lap 18 no.6:275 Je '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Removal of the radioactive impurities of milk by electrodialysis.
Magy krm lap 18 no.6:288 Je '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Some questions relating to the tasks of the plastics industry
research in Hungary. Magy kem lap 18 no.7:297-300 Jl '63.

1. Muanyagipari Kutato Intézet; "Magyar Kemikusok Lapja"
szerkeszto bizottsagi tagja.

HARDY, Gyula

New method for preparing especially fine metal powders. Magy kem
lap 18 no.8:383 Ag '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Removal of carbon oxides from lighting gases. Magy kem lap
18 no.11:554 N '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Synthesis of protein-vitamin concentrates from petroleum products. Magy kem lap 18 no.11:563 N '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

An improved process for hydrazine synthesis. Magy kem lap 18
no.11:565 N '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Chemicals in space flight. Magy kem lap 18 no.11:568 N '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Synthesis of cis-olefins by the Wittig method. Magy kem lap
18 no.11:568-569 N '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Regeneration of pickling solutions of metal works. Magy kem
lap 18 no.12:576 D '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

New, specific glasses. Magy kem lap 18 no.12:586 D '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

New antibiotics. Magy kem lap 18 no.12:592 D '63.

Semiautomatic device for simultaneous analysis of coal, hydrogen and nitrogen. Magy kem lap 18 no.12:592 D '63.

Continuous reactor for preparing carbon disulfide. Magy kem lap 18 no. 12:611 D '63.

1. "Magyar Kemikusok Lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula

Polymerization of benzene to p-polyphenyl. Magy kem lap 18
no.12:597 D '63.

1. "Magyar Kemikusok lapja" szerkeszto bizottsagi tagja.

HARDY, Gyula; NYITRAI, Karoly; FEDOROVA, Natalia; KOVACS, Gabor

Cetyl-methacrylate polymerization. Magy kem folyoir 69 no.1:
42-46 Ja '63.

1. Muanyagipari Kutato Intezet, Budapest.

HARDY, Gyula; NYITRAY, Karoly; KOVACS, Gabor; FEDOROVÁ, Natalia

Research in the field of solid-phase radiation polymerization.
Pt.3. Magy kem folyoir 69 no.10:447-448 0'63.

1. Muanyagipari Kutato Intezet, Budapest.

HARDY, Gyula

Formation of anhydropenicillin by molecular rearrangement.
Magy kem lap 19 no. 4:184 Ap '64.

Research and development expenditure growth in the United States. Ibid.:188.

New methods for the epoxidation of olefins. Ibid.:195.

1. Editorial board member, "Magyar Kemikusok Lapja."

HARDY, Gyula; NYITRAY, Karoly; KOVACS, Gabor; FEDORCVA, Natalia

Research in the field of solid-phase radiation polymerization.
Pt.l. Magy kem folyoir 69 no.10:437-441 0 '63.

1. Muanyagipari Kutato Intezet, Budapest.

HARDY, Gyula; VARGA, Jozsef

Research in the field of solid-phase radiation polymerization.
Pt.2. Magy kem folyoir 69 no.10:441-446 O '63.

1. Budapesti Muszaki Egyetem Muanyag- es Gumiipar Tanszeke.

HARDY, Gyula

Method for oxidizing aromatic compounds. Magy kem lap 19 no.6:313 Je '64.

Growing chemicalization of agriculture. Ibid.:313

More efficient use of fertilizers. Ibid.:313-314

Distribution of American chemists by specialization. Ibid.:314

1. Editorial board member, "Magyar Kemikusok Lapja."

HARDY, Gyula

Spread of fermentation technologies. Magy krm lap 19 no.7:359
Jl '64.

Acetylene production in plasma rays. Ibid.:365

Protein synthesis from hydrocarbons. Ibid.:365

Linear silicon-nitrogen polymers. Ibid.:365

Prospects for industrial utilization of the complete synthesis
of steroids. Ibid.:390-391

Spray drying by air with reduced humidity. Ibid.:391

Antioxidants in food. Ibid.:391.

1. Editorial board member, "Magyar Kemikusok Lapja."

KHARDY, D. [Hardy, Gy.]; VARGA, Y. [Varga, I.]

Effect of additions on the solid state polymerization of N-vinylsuccinimide. Vysokom.sced. 6 no.9:1726-1733 S '64.

(MIRA 17:10)

I. Budapestskiy politekhnicheskiy institut, Vengriya.

HARDY, Gyula; VARGA, Jozsef; NYITRAI, Karoly; CVAJLIK, Istvan;
ZUBONYAI, Laszlo

Synthesis, polymerization and copolymerization of vinyl-thioacetate. Magy kem folyoir 70 no. 4:174-179 Ap '64.

l. Research Institute of the Plastics Industry, Budapest and
Department of the Plastics and Rubber Industries, Budapest
University of Technical Sciences.

†

HARDY, Gyula; VARGA, Jozsef

Investigations in the field of the solid phase radiant
polymerization. Pt. 4. Magy kem folyoir 70 no. 6:258-264
Je '64.

1. Chair of Plastics and Rubber Industry, Budapest Technical
University.

HARDY Gyula

Selective electrolytic reduction of aromatic compounds. Magy
kem lap 20 no.2:65 F '65.

New instrument for measuring molecular weight. Ibid.,65

1. Editorial Board Member, "Magyar Kemikusok Lapja."

HARDY, Gyula

New reactions with carbon monoxide. Magy kem lap 20 no.2:82
F '65.

1. Editorial Board Member, "Magyar Kemikusok Lapja."

HARDY, Gyula

Direct transformation of hydrochloric acid to hydrogen and chlorine. Magy kem lap 20 no.3:118 Mr '65.

1. Editorial Board Member, "Magyar Kemikusok Lapja."

HARDY, Gyula

The new fluidization limekiln built by the American Pfizer firm.
Magy kem lap 20 no.4:182 Ap '65.

Our plastics industry and chemical fibers industry in the last
20 years. Ibid.:197-200

1. Research Institute of Plastics Industry, Budapest, and
Editorial Board Member, "Magyar Kemikusok Lapja."

L 17684-66 EWP(j)/T MM/RM

ACC NR: AT6009218

SOURCE CODE: HU/2502/65/043/002/0121/0128

AUTHOR: Hardy, Gyula--Khardi, D'. (Doctor; Budapest); Nyitray, Karoly--Nitrai, K. (Budapest); Kovacs, Gabor--Kovach, G. (Budapest); Fedorova, Natalia (Budapest) 42

ORG: Research Institute for the Plastics Industry, Budapest B+1

TITLE: Investigations in the field of radiation-induced solid-state polymerization.
Part 1: Cetyl methacrylate 7,44,55

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 43, no. 2, 1965, 121-128

TOPIC TAGS: polymerization, radiation polymerization, cobalt, polymerization rate, polymerization kinetics, polymerization degree

ABSTRACT: The kinetics of the polymerization of cetyl methacrylate was investigated in the solid state under irradiation from Co-60 within the -195° to +60°C temperature range. Owing to an increased degree of molecular mobility, the polymerization rate significantly increased at temperatures near the melting point. There was evidence of solid-state phase transformation at around -16°C. Although radical inhibitors were found to be effective, the polymerization reaction was considered to be of the anionic nature. The polymerization degree was shown to be a function of cetyl methacrylate concentration. Orig. art. has: 8 figures and 1 formula. [JPRS]

SUB CODE: 07 / SUBM DATE: 09Mar63 / OTH REF: 007 .

fw
Card 1/1

Z

L 39548-66 EPF(n)-2/EWF(j)/T/EWA(h)/EWA(l) NW/GD/GG/RM
ACC NR: AP6008586 SOURCE CODE: HU/0005/05/071/002/001/0/91

AUTHOR: Hardy, Gyula; Nagy, Lajos

ORG: Research Institute for the Plastics Industry, Budapest (Muanyagipari Kutato Intezet)

TITLE: Solid-state radiation-copolymerization of acrylic amid¹ and acrylic acid²

SOURCE: Magyar kemial folyoirat, v. 71, no. 2, 1965, p. 91

TOPIC TAGS: copolymerization, radiation polymerization, solid state, amide, aliphatic carboxylic acid

ABSTRACT: The solid system of acrylic amide and acrylic acid has a phase-diagram with two eutectic points, and a molecular compound of 1:2 molar ration is present which has the highest melting point. The rate of copolymerization is the greatest in the eutectic points, and goes through a minimum at the composition corresponding to the molecular compound. Orig. art. has: 3 figures. [JIRS]

SUB CODE: 07 / SUBM DATE: 13Nov64 / ORIG REF: 001

Card 1/1 11b

L 17000-66 EPF(n)-2/EWP(j)/T/EWA(h)/EWA(l) WW/06/

ACC NR: AP6008605

SOURCE CODE: NU/0005/05/07/000617910010-6

AUTHOR: Hardy, Gyula; Varga, Jozsef; Nagy, Gabor

ORG: Department of Plastics and Rubber Industry, Technical University, Budapest
(Muszaki Egyetem Muanyipari Tanszeke)

TITLE: Studies in the field of solid-state radiation polymerization! Part 5:
Solid-state copolymerization of N-vinylsuccinimide and N-vinylpyrrolidone
(copolymerization in solid and supercooled eutectics)

SOURCE: Magyar kemiai folyoirat, v. 71, no. 4, 1965, 171-175

TOPIC TAGS: copolymerization, solid state, radiation polymerization, supercooling,
heterocyclic base compound

ABSTRACT: The eutectic mixture of the ingredients studied is 3.4 imide:
6.6 pyrrolidone. Copolymerization progressed at maximum rate with the
components in this ratio and at a higher rate in a supercooled eutectic
than in a solid eutectic. The theoretical and experimental aspects of
the polymerization, and the characteristics of the copolymers, were
described in detail. Orig. art. has: 10 figures. [JPRS]

SUB CODE: 07 / SUBM DATE: 24Jul64 / ORIG REF: 005 / OTH REF: 011
SOV REF: 001

Card 1/1 2/25

L 17001-66 EPF(n)-2/EWP(j)/T/ EWA(h)/EWA(1) GG/PA
ACC NR: AP6008606

SOURCE CODE: HU/0005/01/001/001/00175/0178

AUTHOR: Hardy, Gyula; Nyitrai, Karoly; Varga, Jozsef; Patko, Marton

ORG: Research Institute for the Plastics Industry, Budapest (Muanyagipari Kutato Intezet); Department of Plastics and Rubber Industry, Technical University, Budapest (Muszaki Egyetem Muanyag- es Gumiipari Tanszeke)

TITLE: Studies in the field of solid-state radiation polymerization. Part 6:
Gamma-radiation-induced solid-state polymerization of vinyl laurate

SOURCE: Magyar kemiai folyoirat, v. 71, no. 4, 1965, 175-178

TOPIC TAGS: solid state, radiation polymerization, gamma radiation, monomer

ABSTRACT: Maximum polymerization rate was observed when the monomer's temperature was near the melting point, + 3°C. The mobility of the molecules of vinyl laurate at this temperature was considered to be relatively high. The polymerization/reaction was investigated under various operational parameters and in the presence of various compounds. The results were presented and discussed in detail. Orig. art. has: 9 figures.
[JPRS]

SUB CODE: 07 / SUBM DATE: 07Aug64 / ORIG REF: 001 / OTH REF: 004

Card 1/1

MJS

2

L 01195-66 EPF(c)/EPF(n)-2/EWP(j)/T/EWA(h)/EWA(c)/EWA(1) CG/RM
ACCESSION NR: AP5025814 HU/0005/65/071/006/0251/0254

AUTHOR: Hardy, Gyula; Varga, Jozsef

TITLE: Studies in the field of solid-state radiation polymerization. Part 7:
Effect of polymer formation on the kinetics of solid-phase polymerization

SOURCE: Magyar kemiai folyoirat, v. 71, no. 6, 1965, 251-254

TOPIC TAGS: radiation polymerization, polymerization kinetics, polymer, solid state, monomer

ABSTRACT: [Authors' English summary, modified] The effect of the formed polymer was studied in monomer-polymer systems during radiation-induced solid-state polymerization, on the kinetics of the solid-state polymerization of N-vinylsuccinimide. The formed polymer accelerated the polymerization, owing to deformations in the crystal lattice (partly decomposed crystal structure) and by the increased mobility of the monomer molecules caused by the polymer formed. This effect is likely to occur in the case of monomers that are of accelerating character in solid-state polymerization. The reverse effect is likely to occur in the case of monomers that are of decelerating character. Orig. art. has: 3 graphs, 1 table.

Card 1/2